

This Section for DOGM Use:  
Assigned DOGM File No.: S0470102  
DOGM Lead: Leslie  
Permit Fee \$ \_\_\_\_\_ Ck # \_\_\_\_\_  
Task: 3901

**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL, GAS AND MINING**  
1594 West North Temple Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801  
Telephone: (801) 538-5291 Fax: (801) 359-3940

**NOTICE OF INTENTION TO COMMENCE SMALL MINING OPERATIONS**

The informational requirements of this form are based on provisions of the Mined Land Reclamation Act, Title 40-8, Utah Code Annotated 1987, and the General Rules as promulgated under the Utah Minerals Regulatory Program.

Note on confidentiality: Information provided in the notice of intention relating to the location, size, or nature of the mineral deposit that is clearly marked confidential will be protected as confidential. Each page or map requested to be kept confidential must be stamped or marked as such. The requested confidential information must describe how the confidential material relates to the location size or nature of the mineral deposit; provide a written claim of business confidentiality; and/or include a concise statement of reasons supporting the claim of business confidentiality, unless disclosing the location of explosives or historic, prehistoric, paleontological, or biological resource that must be considered confidential under statute.

"Small Mining Operations" mining operations which have a disturbed area of five or less surface acres at any time.

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**I. GENERAL INFORMATION** (Rule R647-3-104)

1. Name of Mine: Southwest #1
2. Legal name of entity (or individual) for whom the permit is being requested: \_\_\_\_\_  
Red Leaf Resources, Inc.  
Mailing Address: 200 W. Civic Center Dr. Ste 190  
City, State, Zip: Sandy, UT 84070  
Phone: (801) 878 8105 Fax: (801) 878 8101  
E-mail Address: jpatten@redleafinc.com

Type of Business: Corporation ☒ LLC ( ) Sole Proprietorship (dba) ( )  
Partnership ( ) General \_\_\_\_\_ or \_\_\_\_\_ limited  
**Or:**  
Individual ( )

**Entity must be registered (and maintain registration) with the State of Utah, Division of Corporations (DOC) [www.commerce.utah.gov](http://www.commerce.utah.gov).**

Are you currently registered to do business in the State of Utah? ☒ G Yes ☐ G No **JAN 25 2011**

Entity # \_\_\_\_\_

If no, contact [www.commerce.utah.gov](http://www.commerce.utah.gov) to renew or apply.

**DIV. OIL GAS & MINING**

Local Business License # 6542120-0143 (if required)  
Issued by: County Salt Lake or City \_\_\_\_\_

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**DIV. OF OIL, GAS & MINING**



3.

**Contact Person(s)**

Name: Dr. James Patten Title: President & CEO  
 Address: 200 W Civic Center Dr  
 City, State, Zip: Sandy, UT 84070  
 Phone: (801) 878-8100 Fax: (801) 878-8101  
 Emergency, Weekend, or Holiday Phone: (801) 520 7020  
 E-mail Address: jpatten@redleafinc.com

Contact person to be notified for: permitting ☒ surety ☒ Notices ☒ (please check all that apply)

Name: Dr. Laura Nelson Title: VP Energy & Environment  
 Address: 200 W Civic Center Dr Ste. 190  
 City, State, Zip: Sandy, UT 84070  
 Phone: (801) 878 8100 Fax: (801) 878 8101  
 Emergency, Weekend, or Holiday Phone: (801) 419 4558  
 E-mail Address: lnelson@redleafinc.com

Contact person to be notified for: permitting ☒ surety ☒ Notices ☒ (please check all that apply)

Registered Utah Agent (as identified with the Utah Department of Commerce) (if individual leave blank):

Name: Mr. Matt Greene, CEO  
 Address: 200 Civic Center Dr Ste 190  
 City, State, Zip: Sandy, UT 84070  
 Phone: (801) 878-8100 Fax: (801) 878 8101  
 E-mail Address: mg@redleafinc.com

4.

**If Business is a Sole Proprietor:**

Name of Owner: \_\_\_\_\_ Title: \_\_\_\_\_  
 Business Address: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 E-mail Address: \_\_\_\_\_

**If Business is a Corporation:**

Name of Officers: James W Patten Title: CEO  
Matt Greene Title: CEO  
 \_\_\_\_\_ Title: \_\_\_\_\_  
 \_\_\_\_\_ Title: \_\_\_\_\_  
 Headquarters Address: 200 W Civic Center Dr Ste. 190  
 City, State, Zip: Sandy, UT 84070  
 Headquarters Phone: (801) 878 8100 Fax: (801) 878-8101  
 E-mail Address: jpatten@redleafinc.com

**If Business is a Limited Liability Company:** Member Managed G Manager Managed G

Name of 1<sup>st</sup> Member/Manager: \_\_\_\_\_ Title: \_\_\_\_\_  
 Business Address: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 E-mail Address: \_\_\_\_\_

Name of 2<sup>nd</sup> Member/Manager: \_\_\_\_\_  
 Business Address: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 E-mail Address: \_\_\_\_\_

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**If Business is a Partnership:**

Name of Partner: \_\_\_\_\_  
Business Address: \_\_\_\_\_  
City, State, Zip: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
E-mail Address: \_\_\_\_\_

**5. Ownership of Land Surface:**

Private (Fee) G    Public Domain (BLM) G    National Forest (USFS) G

State Trust Land/School Sections G    State Sovereign Lands G

Other (please describe): \_\_\_\_\_

Name \_\_\_\_\_ Address \_\_\_\_\_

Name \_\_\_\_\_ Address \_\_\_\_\_

Name \_\_\_\_\_ Address \_\_\_\_\_

Name \_\_\_\_\_ Address \_\_\_\_\_

**6. Ownership of Minerals:**

Private (Fee) G    Public Domain (BLM) G    National Forest (USFS) G

State Trust Land/School Sections G    State Sovereign Lands G

Other (please describe): \_\_\_\_\_

Name \_\_\_\_\_ Address \_\_\_\_\_

Name \_\_\_\_\_ Address \_\_\_\_\_

Name \_\_\_\_\_ Address \_\_\_\_\_

Name \_\_\_\_\_ Address \_\_\_\_\_

BLM Lease or Project File Number(s) and/or USFS assigned Project Number(s): \_\_\_\_\_

BLM Claim Numbers \_\_\_\_\_

Utah State Lease Number(s): ML 50150

Name of Lessee(s) Red Leaf Resources, Inc.

**7. Have the above surface and mineral owners been notified in writing?**

Yes X    No \_\_\_\_\_

If no, why not? \_\_\_\_\_

*Please be advised that if State Trust Lands are involved, notification to the Division of Oil, Gas and Mining alone does not satisfy the notification requirements of Mineral Leases upon State Trust Lands. Exploration or mining activity on State Trust Lands requires a minimum of 60 days notice to the Trust Lands Administration **prior** to commencing any activities. Please contact the School Institutional Trust Lands Administration (SITLA) at (801) 538-5508 for notification requirements.*

**8. Does the Entity have legal right to enter and conduct mining operations on the land covered by this notice?** Yes X    No \_\_\_\_\_



II. **PROJECT LOCATION & MAP** (Rule R647-3-105)

1. **Project Location & Map** (legal description):

County(ies): UINTAH

NE 1/4, of NE 1/4, of SW 1/4: Section: 30 Township: 13 S Range: 23 E  
SE 1/4, of NE 1/4, of SW 1/4: Section: 30 Township: 13 S Range: 23 E  
SW 1/4, of NW 1/4, of SE 1/4: Section: 30 Township: 13 S Range: 23 E  
NE 1/4 NW 1/4 SE 1/4 Section: 30 Township: 13 S Range: 23 E  
UTM East \_\_\_\_\_ (if known) UTM North \_\_\_\_\_ (if known)

known)

Name of Quad Map for Location: BATES KNOLLS

2. **Location and Operations maps** must be plotted at a scale to accurately identify locational landmarks and operations details. All maps must include a north arrow, scale, appropriate labels, and title box including the mine name, township, range and section.

a. The **general location map** must be the scale of a USGS 7.5 minute series map or equivalent (1"=2000') and identify new or existing access roads.

b. The **operations map** (1"=200' or other scale as determined necessary by the Division) must be labeled and identify:

i. The area to be disturbed;

ii. The location of any existing or proposed operations including access roads, drill holes, trenches, pits, shafts, cuts, or other planned activities; and

iii. Any adjacent previous disturbance for which the operator is not responsible.

(Contact the Division for a list of consultants and land surveyors for mapping assistance.)

3. The proposed (5 acre or less) disturbed area (including access/haul roads) should be marked in the field ON THE GROUND with metal T-Posts (or with some other marker of equal effectiveness). Markers should be appropriately spaced so that the next marker in either direction is clearly visible with the naked eye.

III. **OPERATION PLAN** (Rule R647-3-106)

1. **Type of mining:** Surface ☒ Underground ☐

2. **Mineral(s) to be mined:** oil shale

3. **Amount of material** to be extracted, moved, or proposed to be moved: less than 1 acre of site excavation and use

4. Will any **water, liquid chemicals, reagents, or other solutions** be used, produced or discharged as part of the mining or milling process?

Yes ☐

No ☒

If yes, please describe (add extra pages if needed) \_\_\_\_\_

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5. Provide a brief **description of the proposed mining operation** and onsite processing facilities (add extra pages if necessary). See Attachment A "Narrative"

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6. ☒ **New Road(s):** Length 2200 (ft) Width 20 (ft)

7. ☐ **Improved Road(s):** Provide a description of the improvements that need to be made to existing roads to access the site, including the Length \_\_\_\_\_ (ft) and Width \_\_\_\_\_ (ft) of new disturbances.

8. Total project surface **acreage to be disturbed:** 4.97 (acres) PLEASE SPECIFY EXACT ACREAGE - (this will be used to determine surety bond amount - see #VI).

9. Proposed **startup date** (month, year) February 1, 2011

10. Proposed **completion date**, if known (month, year) February 1, 2014

**IV. OPERATION AND RECLAMATION PRACTICES** (Rule R647-3-107, 108 & 109)

The reclamation and operation obligation is to keep the area clean and safe, minimize hazards to public safety, return the land to a useful condition, and reestablish at least 70 percent of the premining vegetative ground cover or within practical limits. To accomplish this, the Permittee / Operator will need to perform reclamation concurrently, or at the completion (within one (1) year) of mining. Please refer to The Practical Guide to Reclamation in Utah, available at [https://fs.ogm.utah.gov/pub/MINES/Coal\\_Related/RecMan/Reclamation\\_Manual.pdf](https://fs.ogm.utah.gov/pub/MINES/Coal_Related/RecMan/Reclamation_Manual.pdf).

1. *Keep the mining operation in a safe, clean, and environmentally stable condition.*
2. *Permanently seal all shafts and tunnels to prevent unauthorized or accidental entry.*
3. *Plug drill holes with a five foot cement surface plug. Holes that encounter fluids are to be plugged in the subsurface to prevent aquifer contamination.*
4. *Construct berms, fences, or barriers, when needed, above highwalls and excavations.*
5. *Remove, isolate, or neutralize all toxic materials in a manner compatible with federal and state regulations.*
6. *Remove all waste or debris from stream channels.*
7. *Dispose of any trash, scrap metal, wood, machinery, and buildings.*
8. *Conduct mining activities so as to minimize erosion and control sediment.*
9. *Reclaim all roads that are not part of a permanent transportation system.*
10. *Stockpile topsoil and suitable overburden prior to mining.*

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11. Stabilize highwalls by backfilling or rounding to 45 degrees or less, where feasible; reshape the land to near its original contour, and redistribute the topsoil and suitable overburden.
12. Properly prepare seedbed to a depth of six inches by pocking, ripping, discing, or harrowing. Leave the surface rough.
13. Reseed disturbed areas with adaptable species. (The Division recommends a mixture of species of grass, forb, and browse seed, and will provide a specific species list if requested.)
14. Plant the seed with a rangeland or farm drill, or broadcast the seed. Fall is the preferred time to seed.

**V. VARIANCE REQUEST** (Rule R647-3-110)

**Any variance request must be approved in writing by the Division**

Any planned deviations from Rules R647-3-107, Operation Practices, R647-3-108, Hole Plugging Requirements, or R647-3-109, Reclamation Practices, as summarized above (see IV. Operation and Reclamation Practices Item # 1-14), should be identified below listing applicable rule number. Give justification for the variance(s) and alternate methods or measure to be utilized. Written approval from the Division will be given, if the proposed alternative methods to be used are consistent with the Act.

Are variances being requested? Yes ☐ No ☒

**1<sup>st</sup> Variance Requested**

Item # \_\_\_\_\_ Applicable Rule # (i.e. R647-3-109.10 (if you did not want trenches & pits reclaimed))

Justification: \_\_\_\_\_

Alternate methods or measure to be utilized: \_\_\_\_\_

**2<sup>nd</sup> Variance Requested**

Item # \_\_\_\_\_ Applicable Rule # \_\_\_\_\_

Justification: \_\_\_\_\_

Alternate methods or measure to be utilized: \_\_\_\_\_

**3<sup>rd</sup> Variance Requested**

Item # \_\_\_\_\_ Applicable Rule # \_\_\_\_\_

Justification: \_\_\_\_\_

Alternate methods or measure to be utilized: \_\_\_\_\_

Attach additional page if more variances are requested.

**VI. SURETY** (Utah Code Ann. §40-8-7(1)[c])

**A reclamation contract and surety must be provided to and approved by the Division prior to commencement of operations. No surface disturbance is authorized until the surety is posted and approved in writing.** The surety may be provided in the form of a certificate of deposit, a letter of credit, a surety bond, or cash. Please contact the Division for further information about submitting the surety. All mining operations are required to furnish and maintain reclamation surety to guarantee that the land affected is reclaimed (Utah Code Ann. §40-8-7(1)[c]).

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The reclamation surety amount is based on the nature, extent and duration of operations. The amounts are based on data from current large mine surety and are used as a general guide, along with actual site conditions. Reclamation surety for small mines is reviewed every three (3) or five (5) years and adjusted as necessary for inflation/deflation based upon acceptable Costs Index. **Contact the Division for the dollar amount required for a three (3) or five (5) year period for this project.**

**VII. PERMIT FEE** (Utah Code Ann. §40-8-7(1)(i))

A permittee's authorization under a notice of intention to conduct small mining operations shall require the paying of permit fees as authorized by the Utah Legislature (R647-3-102.5). Permit fees are assessed to new and existing small mining operations, and annually thereafter, until the project disturbances are successfully reclaimed by the Permittee / Operator and released by the Division.

***Small Mine Notices require a \$150.00 fee, which must accompany this application, or the Division cannot process it.***

**VIII. SIGNATURE REQUIREMENT**

**CERTIFICATION**

I state under penalty of perjury under the laws of the state of Utah and the United States of America that:

- a. I have read this form and declare the information, statements and/or documentation are true, correct and complete to the best of my knowledge and belief; AND
- b. I commit to the reclamation of the aforementioned small mining project as required by the Utah Mined Land Reclamation Act (40-8) and the rules as specified by the Board of Oil, Gas and Mining.
- c. **This certification must be signed by:** (1.) an executive officer if the applicant is a corporation; (2.) a partner if applicant is a partnership (general or limited); (3.) the owner if applicant is a sole proprietorship; **or** (4.) the member or manager if applicant is a limited liability company.

Signature: \_\_\_\_\_

Date: 12-08-10

Name (typed or printed): \_\_\_\_\_

Title/Position (if applicable): \_\_\_\_\_

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NOTICE OF INTENT  
TO CONDUCT SMALL MINING ACTIVITIES  
ML 50150

Red Leaf Resources, Inc. (Red Leaf) provides this Notice of Intent to Conduct Small Mining Activities on trust lands managed by the State and Institutional Trust Lands Administration (SITLA), pursuant to the Division of Oil Gas and Mining Rule R 647-3, Small Mining Operations.

In support of this NOI, Red Leaf offers the following information consistent with the format identified in the Department of Oil Gas and Mining Notice of Intent instructions:

1. The subject of this Notice is the SITLA mineral lease ML 50150, owned by Red Leaf Resources, Lessee, Inc., 200 West Civic Center Drive, Sandy, Utah 84074. The lands proposed small mining operations in this Notice are located [NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  SW  $\frac{1}{4}$ ], [SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  SW  $\frac{1}{4}$ ], [SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  SE  $\frac{1}{4}$ ], [NW  $\frac{1}{4}$  NW  $\frac{1}{4}$  SE  $\frac{1}{4}$ ]; Section 30 Township 13 Range 23 E in Uintah County (SLB&M). This will convert Red Leaf's operations from exploration as covered by Exp 047/0055 to Small Mining Operation.  
A location map showing the area proposed for mining operations and the operations map are attached to this filing as **Figure 1, "Red Leaf Resources General Layout Map."**
2. The mining excavation work proposed is for low depth surface mining. The mining equipment will consist of excavators, front end loaders, haul trucks, scrapers and dozers. This equipment will be used to selectively mine within the mine application area up to a depth of 100 ft.  
Uintah County zoning regulations show the proposed exploration area to be within the M&G-1 zone. Underground and surface mining are conditional uses within the M&G-1 zone. Red Leaf Resources has a Conditional Use Permit with the county and provides this permit as **Attachment "B"** of the NOI.
3. Red Leaf is concurrently filing this Notice of Intent to Conduct Small Mining Activities with State Institutional Trust Lands.
4. The mineral deposits to be developed are oil shale deposits. The proposed activities include: site preparation; removal of overburden; excavation of oil shale; operation of an earthen capsule; replacement of oil shale and overburden; and reclamation. The depth from the surface to the top of the oil shale deposits on the site is approximately 100 feet. The oil shale deposits on the site are roughly 65 feet in depth.
5. The topography of the proposed development area is relatively flat with rolling hills. The vegetative cover on the site is predominantly grass/sagebrush community with interspersed stands of pinion and juniper. No water bodies are present on the site.

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Red Leaf is currently conducting an exploration project, Southwest #1, in accordance with its permit for Exploration and Reclamation issued October 24, 2007 at the site. The structures present on the mining site are temporary and were constructed as part of Red Leaf Resource's exploration activities on the site. These structures include office facilities, a maintenance tent, Capsule & support process equipment, a tank farm, Fire water tanks & support equipment. There is also a 900 foot depth and < 7" diameter water well on the site. (See Figure 2)

There is an access road leading to the property. The existing site access road is off of Canyon Reservoir Road ¼ mile to the Northwest. There is a two-track road, approximately ten (10) feet in width, from the Canyon Reservoir Road to the Northwestern corner of the proposed small mine site. This road was maintained under the exploration permit. Red Leaf will continue to maintain this road and the county road during the operation of the small mine. The Road Maintenance Agreement with Uintah County is provided as **Attachment "C"**

6. To the best of Red Leaf's understanding and site review, all pre-existing, un-reclaimed, surface or underground mining disturbances located on the site are those associated with Red Leaf's exploration activities at the site. These include.... Red Leaf has identified a 5 acre disturbance within its exploration area for the small mine operation.
7. Mining operations will be limited to five (5) acres within the area shown as the application area (see Figure 2, "Oil Shale Project General Arrangement"). Soil from the area of the operating mine and capsule construction areas will be stockpiled for reclamation. The mined material will be crushed, screened and sorted into four (4) materials. The material categories are fines, gravel, rubble ore and ramp material. Mined material will be used for testing and scale-up of the EcoShale™ In-Capsule Process.  
The EcoShale™ In-Capsule Process consists of a quarry lined with an impermeable barrier, fitted with metal pipes with ore deliberately placed back in the impound. The excavation of new material will be initiated with the displaced overburden and mined shale similarly stored on remaining acres at the site. The 5 acre area identified is inclusive of all areas needed for equipment, staging, stockpiling, processing, and structures on site. (See "Site Layout, Figure 2.)
8. RLR does not plan to drill any new core holes within the 5 acre site
9. On site gas burners used for heating are on skids and removable at the end of the operations. No permanent structures will be or have been erected.
10. **Figure 1**, Southwest # 1 shows the exploration site and the proposed area of disturbance for the small mine operations. This location is inclusive of equipment. **Figure 2** Southwest # 1 depicts the site arrangement.
11. As part of this small mine operation, Red Leaf will be identifying appropriate markets, haul routes, production targets, sales prices and potential for annual sales. Once collected, this data will be provided to the Division of Oil Gas and Mining and the School and Institutional Trust Lands Administration.
12. The footprint for mining and excavation activity is less than 1 acre.
13. Red Leaf Resources will conduct reclamation consistent R647-3-109. The Bond Calculation is provided as **Attachment "D."**

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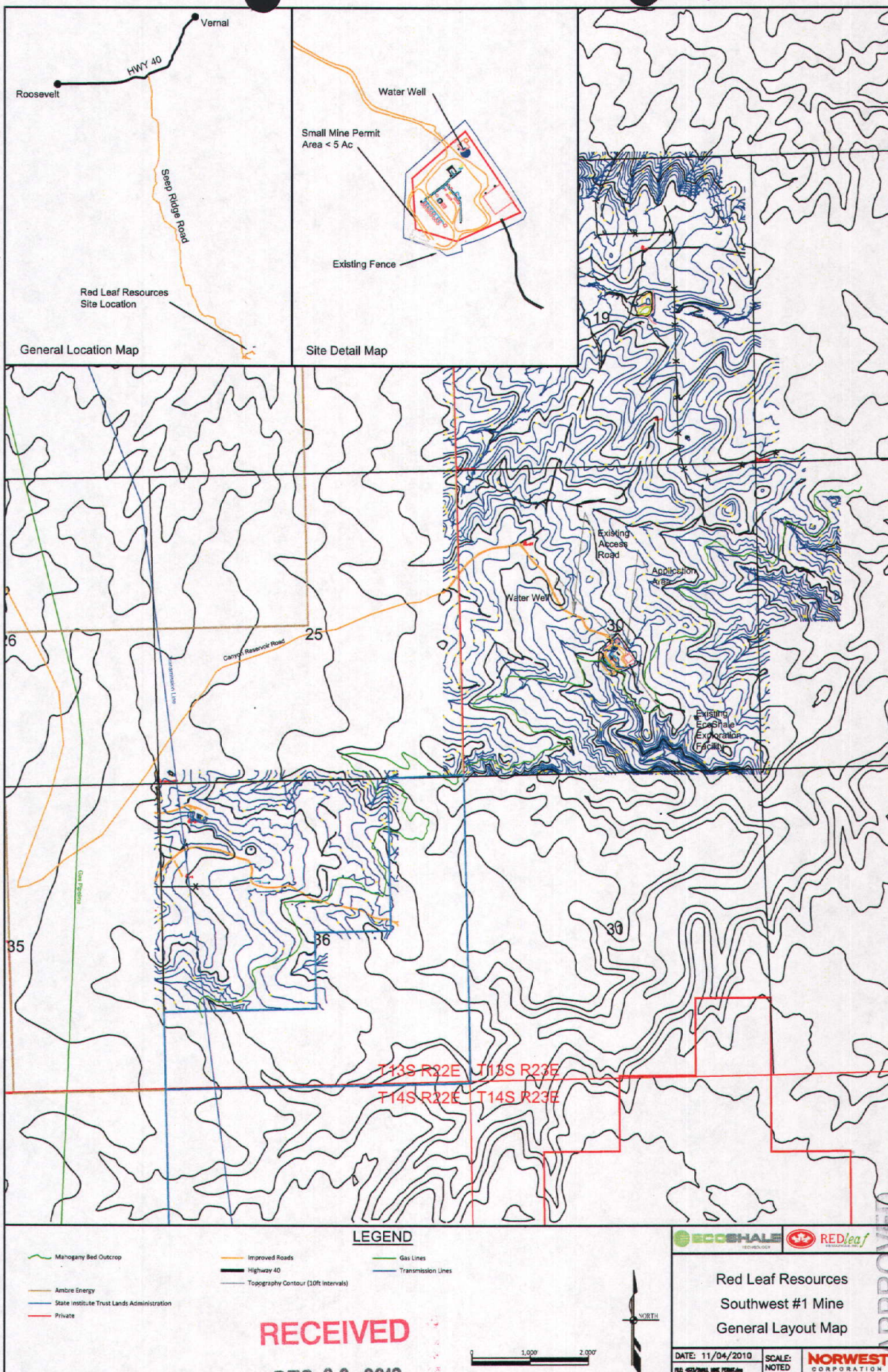
14. Species and cultural survey assessments have been done for the site. There were no findings from the surveys. The cover report for the Cultural Survey is provided as CONFIDENTIAL **Attachment "E."** The full report is on file with the State Historical Preservation Office.

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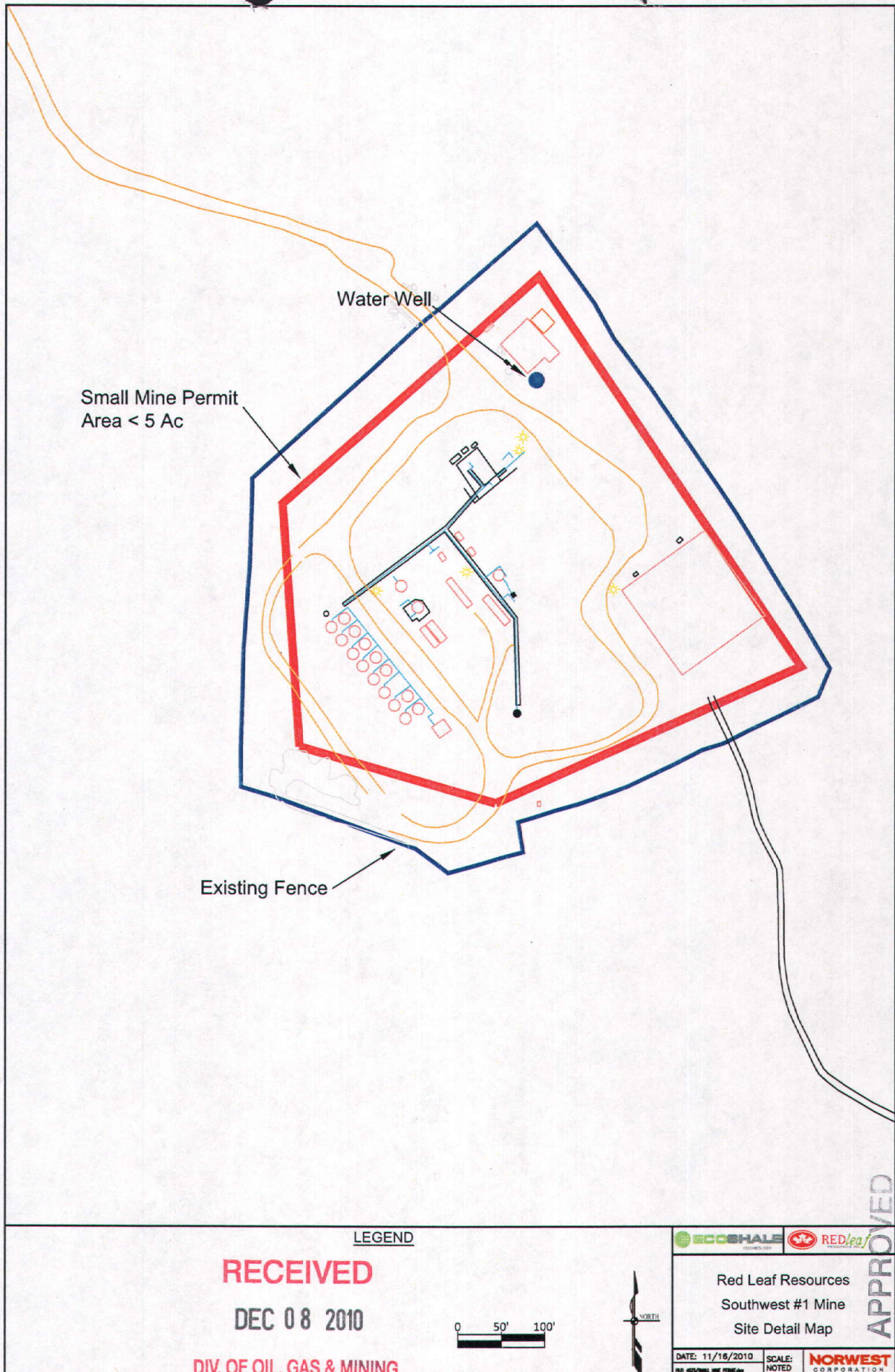
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		<b>APPROVED</b>
Red Leaf Resources Southwest #1 Mine Site Detail Map		
DATE: 11/16/2010 <small>FILE: 4023/SMALL MINE PERMIT.dwg</small>	SCALE: NOTED 	

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Apr 29 08 10:56a Stone River or Hales  
04/29/2008 10:31 4357815352

801-766-9588

p.2

UINTAH CNTY BUILDING

# UTAH COUNTY BUILDING PERMIT

152 East 100 North • Vernal, Utah 84078  
(435) 781-5336

Date of Application <b>11-30-07</b>	Date Work Starts <b>3/3/08</b>	Receipt No. <b>21958</b>	Date Issued <b>3/3/08</b>	Permit Number <b>10421</b>
Proposed Use of Structure <b>Temp. Buildings</b>		BUILDING FEE SCHEDULE Source Pt. of Building <b>1813 + 14400</b> Valuation <b>442,862</b>		
Address Certificate No.		Building Fees <b>294105</b>		
Assessor's Parcel No.		Plan Check Fees <b>44100</b>		
Lot # Block # Subd. Name & Number		Electrical Fees		
Property Location <b>W109°23.076'N39°</b>		Plumbing Fees		
Total Property Area - In Acres or Sq. Ft.		Mechanical Fees		
Total Bldg. Site Area Used		Water		
Owner of Property <b>Red Leaf Resources</b> Phone <b>801-878-8100</b>		Sewer		
Business Name Address		Storm Sewer		
Business Lic. No.		Moving or Demo.		
Architect or Engineer <b>Stone River Construction</b> Phone <b>801-878-8100</b>		Temporary Conn.		
General Contractor <b>M&amp;B Builders, Inc.</b> Phone <b>801-878-8100</b>		Reinspection		
Business Address		State Tax <b>29.44</b>		
Electrical Contractor <b>3106978</b>		Total <b>3361.46</b>		
Business Address		Required		
Plumbing Contractor		Received		
Business Address		Not Rec.		
Mechanical Contractor		Comments:		
Business Address		Land Use Cert.		
Previous Usage of Land or Structures (Past 3 yrs.)		Electrical Dept.		
Dwell. Units Now on Lot		HiBack C.G. & S.		
Accessory Bldgs. Now on Lot		Other		
Type of Improvement/Kind of Const.		Bond Required <input type="checkbox"/> Yes <input type="checkbox"/> No Amount		
No. of Offstreet Parking Spaces:		This application does not become a permit until signed below.		
SUB-CHECK		Plan Chk. OK by <b>Dale Pitt</b> Date <b>2-28-08</b>		
Zone <b>Mt &amp; G 1</b>		Signature of Approval <b>Dale Pitt</b> Date <b>2-28-08</b>		
Disapproved		This permit becomes null and void if work or construction authorized is not commenced within 180 days, or if construction or work is suspended or abandoned for a period of 180 days at any time after work is commenced. I hereby certify that I have read and examined this application and know the same to be true and correct. All provisions of laws and ordinances governing this type of work will be complied with whether specified herein or not. The granting of a permit does not presume to give authority to violate or cancel the provisions of any other state or local law regulating construction or the performance of construction and that I make this statement under penalty of perjury.		
Approved		Signature of Contractor or Authorized Agent <b>4-24-08</b>		
Minimum Setbacks in Feet		Signature of Owner (if owner)		
Front Side Side Rear		Census Tract		
Indicate Street if Corner Lot		Traffic Zone		
Indicate North		Coordinates Ident. No.		
Plot Plan		New S.L.U. Code No.		
House or House & Garage if Attached		Old S.L.U. Code No.		
STREET		Certificate of Occupancy		

NOTE: 24 hours notice is required for all inspections.

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04/29/2008 10:31 4357815352

UINTAH COUNTY BUILDING

# UTAH COUNTY BUILDING PERMIT

 152 East 100 North • Vernal, Utah 84078  
 (435) 781-5335

Date of Application <b>11-30-07</b>	Date Work Starts <b>3/3/08</b>	Receipt No. <b>21958</b>	Date Issued <b>3/3/08</b>	Permit Number <b>10421</b>
Proposed Use of Structure <b>Temp. Buildings</b>		<b>BUILDING FEE SCHEDULE</b> Source Ft. of Building <b>1813 + 14400</b> Valuation <b>442,862</b> <input type="checkbox"/> Rough Basement Building Fees <b>3941.05</b> <input type="checkbox"/> Finish Basement Plan Check Fees <b>441.00</b> Carpet sq. ft. Electrical Fees Garage sq. ft. Plumbing Fees Type of Bldg. <b>V-N</b> Occ. Group <b>R-3+51</b> Mechanical Fees No. of Bldgs. <b>2</b> R. Value Water No. of Stories <b>1</b> Walls Roof Sewer No. of Rooms Storm Sewer No. of Bedrooms Moving or Demo. No. of Outbuildings Temporary Conn. Type of Construction Rainspection <input type="checkbox"/> Frame <input type="checkbox"/> Brick <input type="checkbox"/> Concrete <input type="checkbox"/> Steel State Tax <b>29.41</b> Max. Occ. Load <b>21735</b> <b>&lt; 50.5</b> Fire Sprinkler <input type="checkbox"/> Yes <input type="checkbox"/> No Total <b>3361.46</b>		
Address Certificate No.	Assessors Parcel No.	Address <b>W 109" 23.0760' N 39"</b> Total Property Area - in Acres or Sq. Ft. Total Bldg. Site Area Used		
Owner of Property <b>Red Leaf Resources</b>	Phone <b>801-878-8100</b>	City Business Name Address Business Lic. No. Architect of Engineer <b>Stone River Construction</b> General Contractor <b>MAK Builders Inc.</b> State Lic. No. <b>290180</b> City/Co. Lic. No. Electrical Contractor <b>3106978</b> Business Address State Lic. No. City/Co. Lic. No. Plumbing Contractor Business Address State Lic. No. City/Co. Lic. No. Mechanical Contractor Business Address State Lic. No. City/Co. Lic. No. Previous Usage of Land or Structure (Past 3 yrs.) Dwell. Units Now on Lot Accessory Bldgs. Now on Lot Type of Improvement/Kind of Const. <input type="checkbox"/> Sign <input checked="" type="checkbox"/> Build <input type="checkbox"/> Remodel <input type="checkbox"/> Addition <input type="checkbox"/> Repair <input checked="" type="checkbox"/> Convert Use <input type="checkbox"/> Demolish No. of offstreet parking spaces: Covered Uncovered SUB-CHECK Zone <b>Mt &amp; G</b> Zone Approved By Disapproved Approved Date Sub-Ck. By Minimum Setbacks in Feet Front Side Side Rear Indicate Street if Corner Lot Indicate North Plot Plan House or House & Garage if Attached STREET NOTE: 24 hours notice is required for all inspections.		
Comments: Land Use Cert. Electrical Dept. HiBack C.G. & S. Other Bond Required <input type="checkbox"/> Yes <input type="checkbox"/> No Amount This application does not become a permit until signed below.		Plan Chk. OK by Signature of Approval <b>Dale Pitt</b> Date <b>2-28-08</b> This permit becomes null and void if work or construction authorized is not commenced within 180 days, or if construction or work is suspended or abandoned for a period of 180 days at any time after work is commenced. I hereby certify that I have read and examined this application and know the same to be true and correct. All provisions of laws and ordinances governing this type of work will be complied with whether specified herein or not. The granting of a permit does not presume to give authority to violate or cancel the provisions of any other state or local law regulating construction or the performance of construction and that I make this statement under penalty of perjury. Signature of Contractor or Authorized Agent Date <b>4-24-08</b> Signature of Owner (if owner) (Date) Census Tract. Title Zone Coordinate Ident. No. New S.L.U. Code No. Old S.L.U. Code No. Certificate of Occupancy		

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**ROAD MAINTENANCE AND IMPROVEMENT AGREEMENT**

**Between  
Uintah County, Utah  
and  
Red Leaf Industries UC-RM0007 - 102207**

**THIS ROAD MAINTENANCE AGREEMENT entered into this 22nd day of October 2007 by and between Uintah County, Utah, hereinafter referred to as the "County" and Red Leaf Industries, hereinafter referred to as the "Company."**

**WHEREAS, it is mutually beneficial to the County and the Company to enter into an agreement with respect to the routine general maintenance of certain County roads, including roads on or across public lands according to its established County transportation plan, adopted in the Uintah County Code as Chapter 12.10 and any resolution modifying that document; and**

**WHEREAS, the County is authorized to contract for the construction, improvement and maintenance of public roadways under 17-50-305 Utah Code Annotated; and**

**WHEREAS, the Company has the capability to perform routine maintenance and improvement work as defined herein in a workmanlike manner; and**

**WHEREAS, such routine maintenance and improvement work, which enhances the safety and functional use on those existing roads, is in the interests of all persons traveling those roads; and**

**WHEREAS, The County and the Company recognize that certain County roads have been established by use over public lands and that special circumstances and conditions exist which create unique duties upon the County regarding the maintenance and improvement of those roads;**

**NOW THEREFORE IT IS MUTUALLY AGREED as follows:**

- 1. The County has adopted a transportation map that identifies all roads within the county it deems the County has the right to maintain, including Class B and Class D roads in Chapter 12.10 of the Uintah County Code, which is subject to amendment by resolution of the County Commission.**
- 2. The Company will agree to accomplish work including routine maintenance and improvement on some of the aforementioned roads. The Company will use Uintah County's transportation map as a base map to determine class and location of existing county roads.**

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3. The parties agree that routine maintenance and improvement work on RS2477 roads shall be limited to the "As Is, Where Is" disturbance width definition used by the BLM, and that under no circumstance does this agreement authorize such work outside of those established boundaries without first obtaining the written approval of the appropriate Federal authority.
4. The parties agree that routine maintenance and improvement work on County roads existing under Title V right-of-way grants shall be limited to the right-of-way width granted and that under no circumstance does this agreement authorize such work outside of those established boundaries without first obtaining the written approval of the appropriate Federal authority.
5. The parties agree that routine maintenance and improvement work on County roads on other lands held either by other documented right-of-way or undocumented continual use shall be limited to the right-of-way width granted and that under no circumstance does this agreement authorize such work outside of those established boundaries without first obtaining the written approval of the landowner.

#### Maintenance Projects

6. Routine maintenance shall consist of, but not be limited to the following:
  - a. Work reasonably necessary to preserve the existing road.
  - b. The physical upkeep and repair of County roads due to wear or damage, upkeep will be performed whether the need for maintenance is from natural or other causes.
  - c. Work required to maintain the shape of the road, grade and crown.
  - d. Work required to maintain drainage features associated with the road, culverts, water bars, water turnouts and etc.
  - e. Work required to remove snow.
  - f. Work required to fill mud holes and dust pockets with normally accepted road material.
7. Maintenance will not include resurfacing roads with new non-native material, which work will be considered improvement projects.

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8. Existing road widths shall be documented prior to the performance of such maintenance work. Documentation shall consist of a detailed map at a minimum and may be supplemented with photos and GIS data.
9. The County may inspect any road subject to this agreement at any time and bring to the attention of the Company any maintenance the County feels is necessary to meet the obligation of this agreement. The County retains the right to unilaterally perform any maintenance work it deems necessary on any County road at any time.
10. If the County determines a road should no longer be on the County transportation system, the County will provide at least 1 year notice of intent to abandon said road to the Company to allow the Company appropriate time to apply for a Title V or other appropriate right-of-way.
11. The Company and the County shall meet at least annually to consult regarding improvement projects and routine maintenance. Proposals for maintenance and improvement work may be made by the Company at any time this agreement is in force and shall be considered and either approved or disapproved in a timely and expeditious manner by the County.

#### Improvement Projects

12. A proposal by the Company to undertake improvement projects shall include the anticipated time of commencement and completion of the proposed work, a map showing the location of the proposed work, a description of the proposed work and a brief statement describing the need for the proposed work. Center line descriptions and right-of-way widths shall be provided by the Company.
13. Improvement projects on public lands will be accomplished in conjunction with Title V right-of-way applications. Improvement projects would consist of, but not be limited to the surface disturbances outside of the RS2477 "As Is, Where Is" road width after Title V easements are obtained. Examples would be road re-alignments, associated with poor line of sight, drainage issues, need for additional width, increased turn radius, installation of culverts, surfacing roads with non-native materials.
14. The Company agrees to provide the County with the documents needed and a complete Title V application. The County, at its discretion may file the application under the County's name and obtain the right-of-way grant or Title V in the County's name.
15. Roads built as improvement projects will be built to the standards and conditions as set forth in the approved Title V right-of-way and at a minimum meet Gold Book Standards as applied to roads.

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16. Roads built as improvement projects not requiring a Title V right-of-way will be presented in a letter format with the same basic information required for a Title V right-of-way and will be constructed at a minimum to meet Gold Book Standards as applied to roads.
17. A copy of a valid Title V permit or easement agreement for the improvement project must be available at all times at the work site.
18. The Company will inform the County of the commencement of work on improvement projects 48 hours prior to the start of the improvement project. The report will be made to the County Commission and the Uintah County Road Department.
19. Should a situation arise in which public health or safety is at immediate risk or road work is immediately required within the County's right-of-way and a proposal to the County is not feasible, the Company may take immediate and reasonable action necessary to address the emergency. The Company will report the emergency and work performed as soon as possible to the County.
20. The Company will be responsible for requesting and assuring that an inspection for surface and underground (Blue Stakes or equivalent) hazards has been accomplished prior to commencing work.
21. This Agreement shall be effective as of the date shown in the first paragraph of this document, and shall supersede any previous road maintenance and improvement agreement.
22. This Agreement shall be in effect for a period of twenty (20) years and may be renewed for an additional twenty (20) years with the mutual consent of the parties.
23. This Agreement may be amended by mutual agreement. Such amendments shall be in writing and shall be effective when signed by both parties.
24. Nothing in this Agreement establishes precedent regarding the County's future management or administration of the public lands under its jurisdiction or the County's or State of Utah's administration of transportation systems under their jurisdictions and nothing herein shall preclude or limit any authority the County or the State has under law.
25. Either party hereto may terminate this agreement by providing the other Party 180 days written notice of its intent to terminate.
26. This agreement is intended to govern written proposal for maintenance and

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improvement work adopted as addenda hereto which will include, at a minimum the following information;

Location: Reservoir Canyon Road: T13S, R22E, Sections 25, 35, & 36  
T13S, R23E, Section 30

Length: 2.1 miles

"As Is, Where Is" width: 20 feet

GIS width 20 feet

Work required: Grading and drainage

A statement regarding the need for a Title V.

Photos:

27. Additional roads may be added to this agreement as addendums with unique number identification. Additional roads will be proposed and agreed to in letter format, and will hereafter be considered to be part of this agreement.
28. This agreement shall be binding upon and inure to the benefit of the heirs, successors and assigns of the parties.
29. Administrative Fees may be assessed upon mutual agreement between the County and the Company for administration.
30. Any change or amendment to this Agreement shall be approved in writing by the Company and the County prior to the change or amendment becoming effective.
31. This agreement shall constitute the entire Agreement among the participating entities as provided herein.
32. The Company agrees to defend, hold harmless, and indemnify the County for the wrongful or negligent acts or omissions of their officers, employees, agents, and assigns against any and all liabilities, claims, damages, actions, suits, proceedings, costs and expenses which may arise by reason of any accidents, damages, injuries (including injuries resulting in death) either to persons or property. Personal injury or property damage shall have the same meaning as defined in the Utah Governmental Immunity Act. In no event shall this section be construed with respect to third parties as a waiver of any governmental immunity to which the County is otherwise entitled.
33. Warranties of Participants. Each Participant hereby represents and warrants that:
  - A. It is a public agency or private corporation.
  - B. There is no litigation or legal or governmental action, proceeding, inquiry or investigation pending or threatened by governmental authorities or others or to which such Participant is a party or to which any of its property is subject which if determined adversely to

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such Participant would individually or in the aggregate (1) affect the validity or enforceability of this Agreement, or (2) otherwise materially adversely affect the ability of such Participant to comply with its obligations hereunder or the transactions contemplated hereby.

34. Executed copies of this Agreement shall be placed on file in the office of the County and shall remain on file for public inspection during the term of this Agreement.
35. It is understood and agreed by the parties hereto that this agreement shall be governed by the laws of the State of Utah both as to interpretation and performance.
36. If any provision of this Agreement is held invalid, it shall not affect the validity of any other provision of this Agreement.

IN WITNESS WHEREOF, the parties have executed this Road Maintenance Agreement in duplicate originals on the day and year first above written.

BOARD OF COUNTY COMMISSIONERS OF UTAH COUNTY, UTAH

Michael McKee  
MICHAEL MCKEE, Chair

ATTEST:

Michael W. Wilkins  
MICHAEL WILKINS, Clerk-Auditor



COMPANY  
James W. Patten Red Leaf Resources, Inc.  
President, Company  
Quentin S. Johnson  
Utah County Road Department

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Mine Name : Southwest #1

Demolition Costs

Revised

Ref.	Description (Demo cost Other cost covered through site bond)	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Office Structure	Wood metal single story house structure	02 41 16 1000	4800	Ea										1	Ea		1	Ea	4800
	Footings	Concrete	02 41 16.17 1080	15.05	Ea										30	Ea		30	Ea	451.5
	Generator Set	Steel Building-Large	02 41 16.13 0020	0.33	/CF	20	8	10							1	ft		1600	CF	528
	Burner-Blower System	Steel Building-Large	02 41 16.13 0020	0.33	/CF	40	10	20							1	ft		8000	CF	2640
	Overhead Condensate system	Steel Building-Large	02 41 16.13 0020	0.33	/CF	10	4	8							1	ft		320	CF	105.6
	Motor control conex trailer	Steel Building-Large	02 41 16.13 0020	0.33	/CF	40	8	8							1	ft		2560	CF	844.8
	Conex Trailer	Steel Bldg-Large	02 41 16.13 0020	0.33	/CF	40	8	8												
	<b>Storage tanks</b>																			
	Removal of Tanks (above ground)	9000 gal to 12000 gal tank	02 65 10.30 0130	1625	Ea										19	Ea		19	Ea	30875
	Remove Sludge and water	9000 gal to 12000 gal tank	02 65 10.30 0320	450	Ea										5	Ea		19	Ea	8550
	Haul Tank to certified dump	8000 gal +, 100 mile rt	02 65 10.30 1213	1425	Ea										19	Ea		19	Ea	27075
	Cover-all tent building	Fabric,Steel, Min	02-41-16-1200	7200	Ea															
	no interior walls deduct 50%		02-41-16-5000	-50%	%															3600
	Instrument air building	Steel Building-Large	02 41 16.13 0020	0.33	/CF	40	8	8							1	ft				2560
	Weather station	Steel Building-Large	02 41 16.13 0020	0.33	/CF	8	8	40							1	ft		2560		844.8
	Septic Tank	Pre-cast 100-1250 gal	02 41 13.44 0100	223	Ea										1	Ea		1	Ea	450
	Misc. Pipes	Steel 6"-10"	02 41 13.40 0140	2.97	/CF										300	ft		300	Ft	891
	<b>Equipment 's Disposal Cost</b>																			
	Weight of Debris Demolished														786	tons				
	Haul to recycling Center	Dump 16 ton payload--Excd whole bldgs	02 41 19.23 2135	23.5	CY										662	CY				15561.08
	<b>Sub-total Structures</b>																			99776.78
	<b>Indirect Cost</b>																			
	Contingency @ 5%	Demolition overhead cost																		4988.839
	Project Manangement @ 5%	Demolition overhead cost																		4988.839
	<b>Water Well</b>																			
	900' @ < 7" diameter																			15,539
	<b>General Site for SMO</b>																			
	Standard site cost for 5 Acres																			25,100
	<b>Total Site Bond</b>																			150,393
	Concrete Demolition	No concrete floors or structures																		0
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	<b>Subtotal</b>																			0
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	<b>Subtotal</b>																			
	<b>Total</b>																			150,393

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Printed 12/7/2010

File Name Bond Calc RLR SMO Southwest #1, Worksheet Name Sheet07

Page 1 of 1



This page is a reference page used to track documents internally for the Division of Oil, Gas and Mining

Mine Permit Number 5/047/0102 Mine Name SOUTHWEST #1  
Operator RED LEAF RESOURCES Date Rec'd DEC 8 2010  
TO \_\_\_\_\_ FROM \_\_\_\_\_

☒ CONFIDENTIAL ☐ BOND CLOSURE ☐ LARGE MAPS ☐ EXPANDABLE  
☐ MULTIPLE DOCUMENT TRACKING SHEET ☐ NEW APPROVED NOI  
☐ AMENDMENT ☐ OTHER \_\_\_\_\_

Description

YEAR-Record Number

☒ NOI ☐ Incoming ☐ Outgoing ☐ Internal ☐ Superseded  
CULTURAL RESOURCES 2010-12082010

☐ NOI ☐ Incoming ☐ Outgoing ☐ Internal ☐ Superseded

☐ NOI ☐ Incoming ☐ Outgoing ☐ Internal ☐ Superseded

☐ NOI ☐ Incoming ☐ Outgoing ☐ Internal ☐ Superseded

☐ TEXT/ 8 1/2 X 11 MAP PAGES ☐ 11 X 17 MAPS ☐ LARGE MAP

COMMENTS: \_\_\_\_\_

CC: \_\_\_\_\_

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